

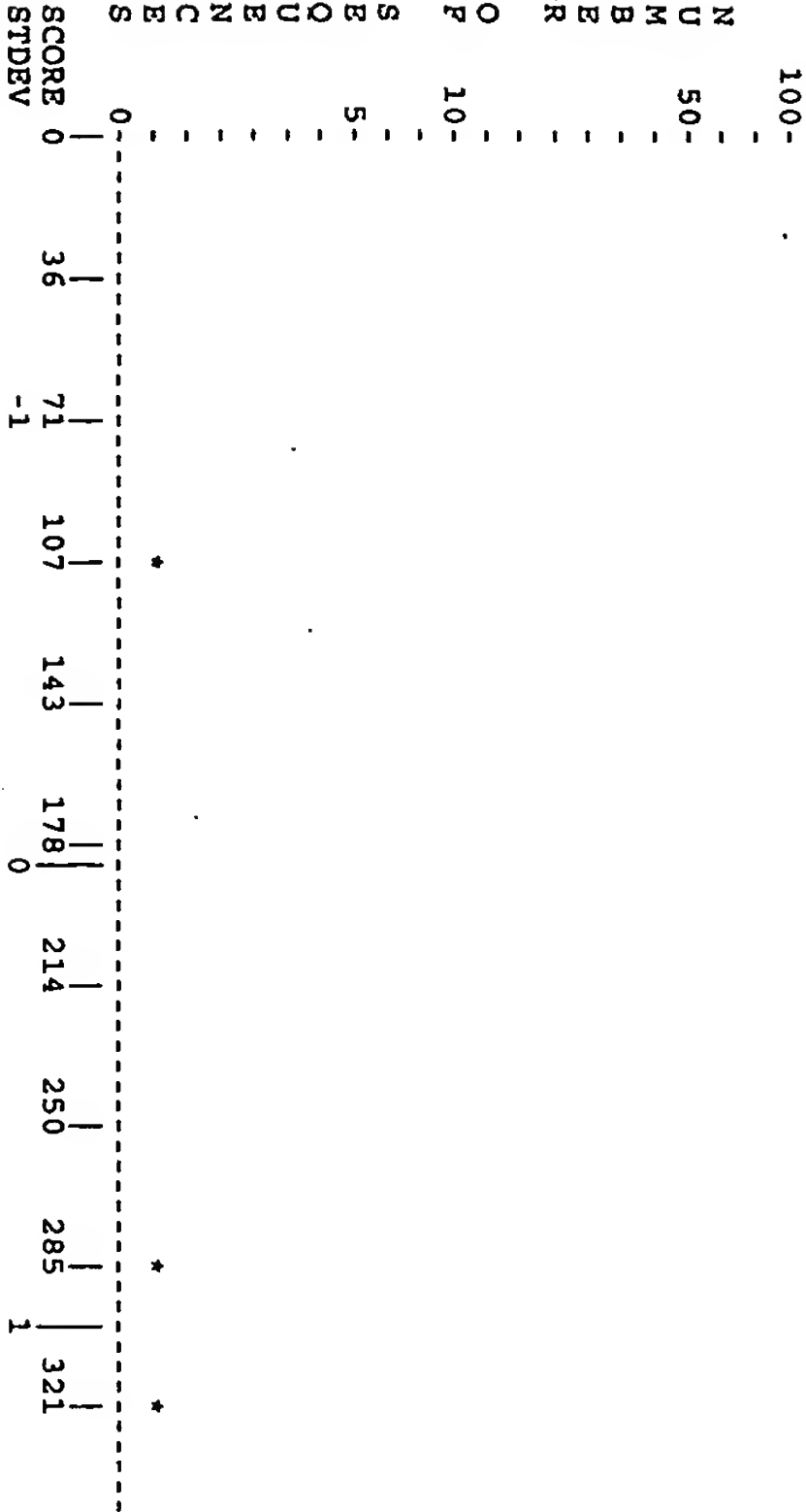
> O <
O|/O IntelliGenetics
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file seq32_seq2-seq33-seq34.res made by jdelaval on Tue 3 May 105 5:54:17-PST.

Query sequence being compared:US-10-633-008-32 (1-399)
Number of sequences searched: 3
Number of scores above cutoff: 3

Results of the initial comparison of US-10-633-008-32 (1-399) with:
File : US10633008.pes



PARAMETERS

Similarity matrix Unitary K-tuple
Mismatch penalty 1 Joining penalty 2
Gap penalty 1.00 Window size 20
Gap size penalty 0.05
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean 237 Median 109 Standard Deviation 113.81

Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00

Number of residues: 906
Number of sequences searched: 3
Number of scores above cutoff: 3

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was not found.

The list of best scores is:

Sequence Name	Description	Length	Score	Opt. Score	Sig. Frame
1. US-10-633-008-2	Sequence 2, Application US	321	321	321	0.74 0
2. US-10-633-008-33	Sequence 33, Application	305	284	193	0.41 0
3. US-10-633-008-34	Sequence 34, Application	280	108	128	-1.13 0

1. US-10-633-008-32 (1-399)
US-10-633-008-2 Sequence 2, Application US/10633008

Sequence 2, Application US/10633008

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Fong, Sherman

APPLICANT: Goddard, Audrey

APPLICANT: Gurney, Austin L.

APPLICANT: Napier, Mary A.

APPLICANT: Tumas, Daniel

APPLICANT: Van Lookren, Menno

APPLICANT: Wood, William I.

TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT

FILE REFERENCE: 39766/0100P1

CURRENT APPLICATION NUMBER: US/10/633,008

PRIOR FILING DATE: 2003-07-31

PRIOR APPLICATION NUMBER: US/10/265,542

PRIOR FILING DATE: 2002-10-03

PRIOR APPLICATION NUMBER: PCT/US00/04414

PRIOR FILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: PCT/US00/14042

PRIOR FILING DATE: 2000-05-22

PRIOR APPLICATION NUMBER: PCT/US00/32678

PRIOR FILING DATE: 2000-12-01

PRIOR APPLICATION NUMBER: US/09/254,465

PRIOR FILING DATE: 1999-03-05

PRIOR APPLICATION NUMBER: PCT/US99/05028

PRIOR FILING DATE: 1999-03-08

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 321

TYPE: PRT

ORGANISM: Homo sapiens

Initial Score = 321 Optimized Score = 321 Significance = 0.74
Residue Identity = 100% Matches = 321 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X 10 10 20 30 40 50 60 70
MGIILGLLHLTVDTYGRPILEVPESTVGPMKGDVNLPCITYDPLOGYTQVLVKMLVQSGDPVITFLRDS
MGIILGLLHLTVDTYGRPILEVPESTVGPMKGDVNLPCITYDPLOGYTQVLVKMLVQSGDPVITFLRDS
X 10 20 30 40 50 60 70
SGDHIQQAQYQGRHLVSHKVPBGDVSLQSTLEMDRSHYTCVETWQTPDGNQVVRDKITELRVQKLSVSKPT
SGDHIQQAQYQGRHLVSHKVPBGDVSLQSTLEMDRSHYTCVETWQTPDGNQVVRDKITELRVQKLSVSKPT
X 80 90 100 110 120 130 140
VTTGSGYGFVPOGMRISLQCGARGSPISYIWKQCTNNQEPKIVATLSTLLEKPAVIADSGSYFCTAKGQ
VTTGSGYGFVPOGMRISLQCGARGSPISYIWKQCTNNQEPKIVATLSTLLEKPAVIADSGSYFCTAKGQ
X 150 160 170 180 190 200 210
VSEQHSIDIYKVVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTMDGVLGETSAGPGKSLPVFAII
VSEQHSIDIYKVVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTMDGVLGETSAGPGKSLPVFAII
X 220 230 240 250 260 270 280
VSEQHSIDIYKVVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTMDGVLGETSAGPGKSLPVFAII
VSEQHSIDIYKVVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTMDGVLGETSAGPGKSLPVFAII
X 220 230 240 250 260 270 280

```

      290       300       310          X           330       340       350       360
LIISLCMVVFETMAYIMLCRKTSQQEHVEAARAHAREANDSGEITRVAIFASGCSSDEPTSQNLGNNSYSD
|||'||||||'|||||||'|||||'
LIIISLCMVVFETMAYIMLCRKTSQQEHVEAAR
      290       300       310       320

```

370	380	390
PCIGQEYQIIAQINGNYARLLDTVP	LDYEF	LATEGKSVCC

2. US-10-633-008-32 (1-399)
US-10-633-008-33 Sequence 33, Application US/106333008

Sequence 33, Application US/10633008
GENERAL INFORMATION:

```

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/0100P1
CURRENT APPLICATION NUMBER: US/10/633, 008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265, 542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254, 465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 33
LENGTH: 305

```

TYPE: PRT
ORGANISM: Homo sapiens

Initial Score	=	284	Optimized Score	=	193	Significance	=	0.41
Residue Identity	=	62%	Matches	=	204	Mismatches	=	89
Gaps	=	36	Conservative Substitutions	=			=	0

	10	20	30	40	50	60	70
MGILLGLLLGLH	L	T	V	D	T	Y	G
R	P	I	L	E	V	P	E
S	T	G	P	M	K	G	D
V	N	L	P	C	T	Y	D
L	P	L	O	G	Y	T	Q
V	L	V	K	M	L	V	Q
R	G	S	D	P	E	V	T
I	F	L	R	D	S		
80	X	90	100	110	120	130	140
S	G	D	H	I	Q	A	K
Y	Q	R	L	H	V	S	H
K	P	G	D	V	S	L	O
S	T	L	E	M	D	R	S
H	T	C	E	V	-	T	W
O	T	P	D	G	N	O	V
R	D	K	I	T	-	E	L
R	V	Q	L	S	V	S	
MGIL	-----	I	G	L	L	G	L
X	10	20	30	40	50		
L	H	L	T	V	D	T	Y
G	R	P	I	L	E	V	P
E	S	T	G	P	M	K	G
D	V	N	L	P	C	T	Y
D	P	L	O	G	Y	T	Q
V	L	V	K	M	L	V	Q
R	G	S	D	P	E	V	T
I	F	L	R	D	S		
150	160	170	180	190	200		
K	P	T	T	T	S	G	Y
F	T	V	P	Q	G	M	R
I	S	L	Q	C	A	R	G
S	P	P	I	S	I	W	K
Q	T	N	N	Q	E	P	I
K	Y	-	-	-	-	A	T
L	S	T	L	F	R	K	A
V	I	A	D	S	G	S	
60	70	80	90	100	110		
K	M	L	V	Q	R	G	S
-	-	-	-	-	-	-	-
D	P	T	I	F	-	R	D
S	S	G	D	H	I	Q	A
K	Y	Q	R	L	H	V	S
H	K	V	P	G	D	V	S
L	S	L	T	-	-	-	-
E	M	D	R	S	H		
210	220	230	240	250	260	270	
Y	F	C	-	T	A	K	G
V	G	S	E	Q	H	S	D
-	I	V	K	-	F	V	V
D	S	S	K	L	L	K	T
K	T	K	T	E	A	P	T
T	M	T	Y	F	L	K	A
T	S	T	V	K	S	W	D
W	T	T	M	D	G	Y	L
G	E	T	S	A			
Y	T	C	E	V	T	W	O
T	P	D	G	N	O	V	R
D	K	I	T	E	L	R	V
Q	H	S	S	K	L	L	K
T	K	T	E	A	P	T	T
M	Y	F	L	K	A	T	S
T	V	K	S	W	D	T	T
M	D	G	Y	L	G	E	T
S	A						
120	130	140	150	160	170	180	
G	P	K	S	D	P	E	V
T	I	F	L	R	D	S	
H	I	Q	A	R	G	S	
P	P	I	S	I	W	K	
Q	T	N	N	Q	E	P	
K	Y	-	-	-	-	A	
L	S	T	L	F	R	K	
V	I	A	D	S	G	S	
280	290	300	310	320	330	340	
G	P	K	S	D	P	E	V
T	I	F	L	R	D	S	
H	I	Q	A	R	G	S	
P	P	I	S	I	W	K	
Q	T	N	N	Q	E	P	
K	Y	-	-	-	-	A	
L	S	T	L	F	R	K	

350 360 370 380 390 X
 TSQNLGNMYSDEPCIGQEQYQITLQINGNYARLLDTPLOYEFLATEGKSVX
 TSQNLGNMYSDEPCIGQEQYQITLQINGNYARLLDTPLOYEFLATEGKSVX
 TSQNLGNMYSDEPCIGQEQYQITLQINGNYARLLDTPLOYEFLATEGKSVX
 260 270 280 290 300 X
 GPGSLPVEFAILLITSLCCMVFIMAYIMLCRKTSQGEHVEAARAHAREANDSGETMRVAIFASGCSDEE

3. US-10-633-008-32 (1-399)
US-10-633-008-34 Sequence 34, Application US/10633008

Sequence 34, Application US/10633008

```

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tuma, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/0100P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 34

```

TYPE: PRT
ORGANISM: Mus musculus

Initial Score	=	108	Optimized Score	=	128	Significance	=	-1.13
Residue Identity	=	44%	Matches	=	137	Mismatches	=	129
Gaps	=	42	Conservative Substitutions	=	0			

```

X      10      20      30      40      50      60      70
MGLLGLLLGLHTVDTYGRPILEVEBSVTGPWKGDVNLPCITYDLQGYTQVLVKWLVRGSDPYTIFLRDS
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
MEISSGLFLEGLIVLTGYHPTLKTEBSVTGTWKGDVKIQCIYDPLRGYQVLVKWLVRHGSDSVTIFLRDS
X      10      20      30      40      50      60      70

SGDHIQQAQKQGRLHVSHKVPBGVSLQSLTLEMDDRSHYTCVYWTQTPDGNQVVRDKITELRVOK-----
80      90      100      110      120      130
TGDHIQQAQKRGRLKVKSHKVPBGVSLQINTLQMDDRNHYTEVWTQTPDGNQVVRDKITELRVAKYNPBRIN
80      90      100      110      120      130      140

-----140      150      160      170      180      190      200
-----LSVSKPTVTGTSGYGFVPGQMRISLQCGARGSPISYIWKQQTNNQEPKIVATLSTLLEFKPAVIT
TEAPTTLHSSLLEATTIMSSSTDLTNG-TGKLEETIAGSGRNLPIAIIIFISLCCIAVAVTIPYILF-----
150      160      170      180      190      200

ADSGSYFCTAKQGVSEQHSDIVKFFVVKDSSKLKTKTEAPTWTYYPILKAT-STVKQSWDWTMDGYLGLEET
210      220      230      240      250      260      270

-----RCRTFOOEYVYGVS--RVFARKTS-----NSEETTRVT--TIATDEPDSQALISDYSDBCLSOEB

```

	220	230	240	250	260
280	290	X	300	310	320
320	330	340			
SAGPGKSLPVPAIILILISLCCMVFTMAIYIMLCRKTSQOEHVYEAAARAHAREANDSGETMRVAIFASGCGSSD					
YQITIRS-----TMSIPAC					
270	280				
350	360	370	380	390	
EPTBQNLGNNYSDEPCIGOEYOIIAQINGNYARLLDTPVPLDYEFPLATEGKSV					

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; Sequence 32, Application US/10633008
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Napier, Mary A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Van Lookren, Manno
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
; FILE REFERENCE: 39766/0100P1
; CURRENT APPLICATION NUMBER: US/10/633,008
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/10/265,542
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US/09/254,465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-633-008-32
MGILGLLLGLHGLTVDTYGRPILEVPESVTGPMKGDVNLPCITYDPLQGYTOVLVKWLVRGSDPVTIFLR
DSSGDHIQAKYQGRHLVSHKVPBGDVSLOSTLEMDDRSHYTCVWTQTPDGNQVVRDKITELRVQKLSV
SKPTVTGSGYGTVEQGMRLSLQCGARSPISYIWKQOTNOEPKIKVATLSTLLEKPAVIADSGSYF
CTAKQVGSSEQHSDIVKFVVKDSSKLLKTKTEAPTWTYPLKATSTVKQSNWTTTMDGYLGETSAGPGK
SLPVFAILLIISLCMVVETMAYIMLCRKTSQOEHVYEARAHAAREANDSGETMRVAIFASGCSDEPTS
ONLGNNYSDEPCTIGQEYQIIAQINGNYARLBDTVPLDYEFLATEGKSVCI

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```
; Sequence 2, Application US/10633008
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Napier, Mary A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Van Lookren, Menno
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
; FILE REFERENCE: 39766/0100P1
; CURRENT APPLICATION NUMBER: US/10/633,008
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/10/265,542
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US/09/254,465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-633-008-2
MGILGLLLGLHLYDTYGRPILEVPESVTGPMKGDVNLPCITYDPLQGYTOVLVKMLVQRGSDPVTIFLR
DSGSDHIQOAKYQGRHSHKVPBGDVSLOLSTLEMDRSHYTCVWTQTPDGNQVVRDKITELRVQKLSV
SKPTVTGSGYGFVPOGMRISLOQARGSPISYWKQOQTNNOEPKIKVATLSTLFFKPAVIADSGSYF
CTAKQVGSSEQHSDIVKVVKDSKLLKTKTEAFTMTYPLKATSTVKQSWDWTMDGYLGETSAGPGK
SLPVFAILLISLCMVFTMAYIMLCRKTSQOEHYEARL
```

```
; Sequence 33, Application US/10633008
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Napier, Mary A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Van Lookren, Menno
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
; FILE REFERENCE: 39766/0100P1
; CURRENT APPLICATION NUMBER: US/10/633,008
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/10/265,542
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US/09/254,465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 305
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-633-008-33
MGILGLLLGLHLYDTYGRPILEVPESVTGPMKGDVNLPCITYDPLQGYTOVLVKMLVQRGSDPVTIFLR
DSGSDHIQOAKYQGRHSHKVPBGDVSLOLSTLEMDRSHYTCVWTQTPDGNQVVRDKITELRVQKHS
KLKTKTEAFTMTYPLKATSTVKQSWDWTMDGYLGETSAGPGKSLPVFAILLISLCMVFTMAYI
MLCRKTSQOEHYEARAHAREANDSGETMRVAIFASGCCSDEPTSONLGNNYSDEPCIGQYQIAQIN
GNYARLDTVPIDYEPFLATEGKSVCI
```

```
; Sequence 34, Application US/10633008
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin L.
; APPLICANT: Napier, Mary A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Van Lookren, Menno
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
; FILE REFERENCE: 39766/0100P1
; CURRENT APPLICATION NUMBER: US/10/633,008
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/10/265,542
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US/09/254,465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-633-008-34
MEISSGLFLGLHLYLVLYGHPTLKTPEESVTGFWKGDVKIQCIYDPLRGYQVLYKWLVRHGSDSVTIFLR
DSTGDHIQQAKEYRGRLKVSHPGVDVSLQINTLQMDRNMHYTCEVTWQTPDGNQVIRDKIIELRVRKYNP
PRINTEAPTTLHSSLEATTIMSSDILTNGTGKLEETIAGSRNLPIFAIFLISLCCIVAVTIPYILF
RCRTFQOEYVYGVSRVFARKTSNSEETRTVTITATDEPDSQALISDYSDDPCLSQEYQITIRSTMSIPACI
```